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Docket No. F-9014

Scr. No. 10/569,166

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. - 14. (Cancelled)

15. (New) A method of producing a light receiving and light emitting module sheet comprising:

providing plural function elements having a light receiving or light emitting function,

providing said function element with positive and negative connective wire connecting parts,

arranging the plural function elements in plural columns,

providing pairs of conductive wires that connect in parallel,

providing plural insulating wires woven into a mesh structure with said plural conductive wires,

disposing said plural function elements in said mesh structure between each pair of conductive wires with the conductive direction thereof aligned,

contacting the positive and negative conductive wire connecting parts of said function elements with corresponding conductive wires,

supplying current to said conductive wires, and

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utilizing said supplied electric current to effect joining of said positive and negative conductive wire connecting parts of said function elements with corresponding conductive wires with alloyed connections.

16. (New) A method according to claim 15, wherein said alloyed connections between the function element and the conductive wires serve as electrodes.

17. (New) A method according to claim 15, wherein said function elements comprise silicon and said conductive wires are eutectic reactive to silicon.

18. (New) A method according to claim 15, wherein said step of providing function elements comprises producing the function elements without electrodes, said step of disposing the plural function elements in said mesh structure comprising disposing the function elements without electrodes in said mesh structure.

19. (New) A method according to claim 15, wherein said step of applying current to said conductive wires comprises applying a pulsed direct current to the conductive wires.

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20. (New) A method according to claim 15, comprising forming said alloyed connections between 570°C to 650°C.

21. (New) A method of producing a light receiving and light emitting module comprising:

providing plural spherical elements with positive and negative connective wire connecting parts,

arranging the plural spherical elements in plural columns,

providing pairs of conductive wires that connect in parallel,

providing plural insulating wires woven into a mesh structure with said plural conductive wires,

disposing said plural spherical elements in said mesh structure,

contacting the positive and negative conductive wire connecting parts of each spherical element with corresponding conductive wires,

supplying electric current to said conductive wires, and

utilizing said supplied electric current to effect joining of said positive and negative conductive wire connecting parts of said spherical elements with corresponding conductive wires.

22. (New) A method according to claim 21, wherein said conductive wires are metal alloy conductive wires have lower electrical and thermal conductivity

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than aluminum, and further comprising coating joining parts between the metal alloy conductive wires and the spherical elements with aluminum containing silicon or an aluminum alloy containing silicon.

23. (New) A method according to claim 21, wherein said conductive wires are copper conductive wires, and further comprises coating joining points to the copper wires with a gold alloy.